

# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Air System Components, Inc. dba PennBarry 605 Shiloh Road Plano, TX 75074

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

## DESCRIPTION: DX Domex Downblast and FX Fumex Upblast Aluminum Rooftop Fans

**APPROVAL DOCUMENT:** Drawing No. 08-00622, titled "DX Domex Downblast and FX Fumex Upblast Roof Vents", sheets 1 through 5 of 5, dated 10/08/2008, with revision E dated 03/06/2014, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

## MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Horizon City, TX, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 10-0615.09 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMIDADE COUNTY APPROVED

CH 21/2014

NOA No. 14-0311.03 Expiration Date: March 11, 2019 Approval Date: May 1, 2014

Page 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. 08-00622, titled "DX Domex Downblast and FX Fumex Upblast Roof Vents", sheets 1 through 5 of 5, dated 10/08/2008, with revision E dated 03/06/2014, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Luis R. Lomas, P.E.

#### B. TESTS "Submitted under NOA # 10-0324.03"

1. Test reports on Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of Series/Models DX36B and FX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. 95871.01-801-18, dated 01/21/2010, signed and sealed by Joseph A. Reed, P.E.

#### "Submitted under NOA # 09-1015.03"

- 2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  2) Large Missile Impact Test per FBC, TAS 201-94
  along with marked-up drawings and installation diagram of Series/Model FX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. 83741.01-801-18, dated 09/19/08, with Revision 2 dated 09/03/2009, signed and sealed by Joseph A. Reed, P.E.
- 3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  2) Large Missile Impact Test per FBC, TAS 201-94
  along with marked-up drawings and installation diagram of Series/Model DX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. 83743.01-801-18, dated 09/19/08, with Revision 2 dated 09/03/2009, signed and sealed by Joseph A. Reed, P.E.

#### C. CALCULATIONS "Submitted under NOA # 10-0324.03"

1. Engineering Evaluation Report No. 511006-2, prepared L. Roberto Lomas, P.E., dated 02/16/2010, signed and sealed by Luis R. Lomas, P.E.

#### "Submitted under NOA # 08-1202,13"

2. Anchoring verification calculations, dated 10/28/2008, prepared, signed and sealed by Luis R. Lomas, P.E.

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

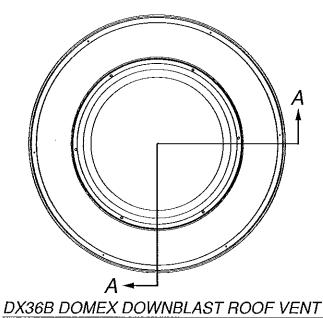
#### E. MATERIAL CERTIFICATIONS

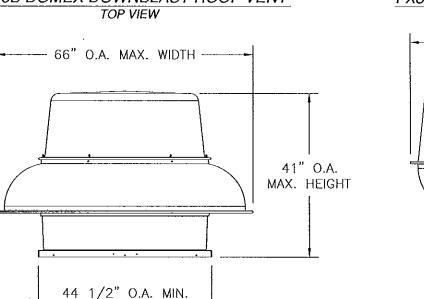
1. None.

#### F. STATEMENTS

Statement letter of code conformance to FBC 2010 and no financial interest, dated 02/27/2014, issued, signed and sealed by Luis R. Lomas, P.E.

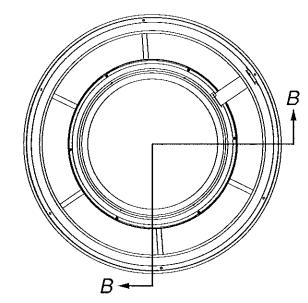
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0311.03
Expiration Date: March 11, 2019
Approval Date: May 1, 2014



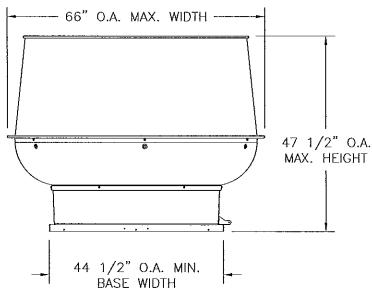


DX36B DOMEX DOWNBLAST ROOF VENT **ELEVATION VIEW** 

BASE WIDTH



FX36B FUMEX UPBLAST ROOF VENT TOP VIEW



FX36B FUMEX UPBLAST ROOF VENT **ELEVATION VIEW** 

DESIGN PRESSURE RATING	IMPACT RATING		
±70.0 PSF	LARGE AND SMALL MISSILE IMPACT		

	TABLE OF CONTENTS					
SHEET NO.	DESCRIPTION					
1	ELEVATION, TOP VIEWS AND GENERAL NOTES					
2	2 BILL OF MATERIALS AND SECTIONS					
3	INSTALLATION DETAILS					
4 - 5	COMPONENTS					

	REVISIONS									
RE	٧	DESCRIPTION	DATE	APPROVED						
E		REVISED MFR'S NAME & ADDRESS	03/06/14	RL						

### NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ
- WOOD FRAMING, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF UNIT OPENING AND ALL WOOD FRAMING AROUND UNIT.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND-BORNE DEBRIS REGIONS.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- FOR INSTALLATION INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR INSTALLATION INTO CONCRETE SLAB USE 3/16" ELCO TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE, LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO STEEL FRAMING USE #12 TEK SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE FRAME THICKNESS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 9) ALL INSTALLATION FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
  - C. MASONRY STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
- D. METAL FRAMING .125" MINIMUM THICKNESS
- 11) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 12) VENT HOUSING MATERIAL: 1100-0 ALUMINUM.
- VENT BASE MATERIAL: MINIMUM .042" THK. G-90 GALVANIZED STEEL OR MINIMUM .102" THK. ALUMINUM 3003-H14.
- GREASE BOX AND EXTERNAL WEATHERPROOF JUNCTION BOX MAY BE ATTACHED TO THIS PRODUCT. GREASE BOX AND EXTERNAL WEATHERPROOF JUNCTION BOX ARE NOT PART OF THIS APPROVAL.
- 15) THIS APPROVAL IS FOR STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY, IT DOES NOT INCLUDE ANY INTERIOR MECHANISM AND/OR ELECTRICAL DEVICE OR
- 16) THESE FANS HAVE NOT BEEN TESTED FOR WATER PENETRATION.

SIGNED: 04/03/2014

PHODUCT RENEWED as complying with the Florida Building Code Acceptance No 14-0311.03 Expination Date 03/1/120

Miami Dade Product Control

DX DOMEX DOWNBLAST ROOF VENT FX FUMEX UPBLAST ROOF VENT ELEVATION, TOP VIEW AND GENERAL NOTES

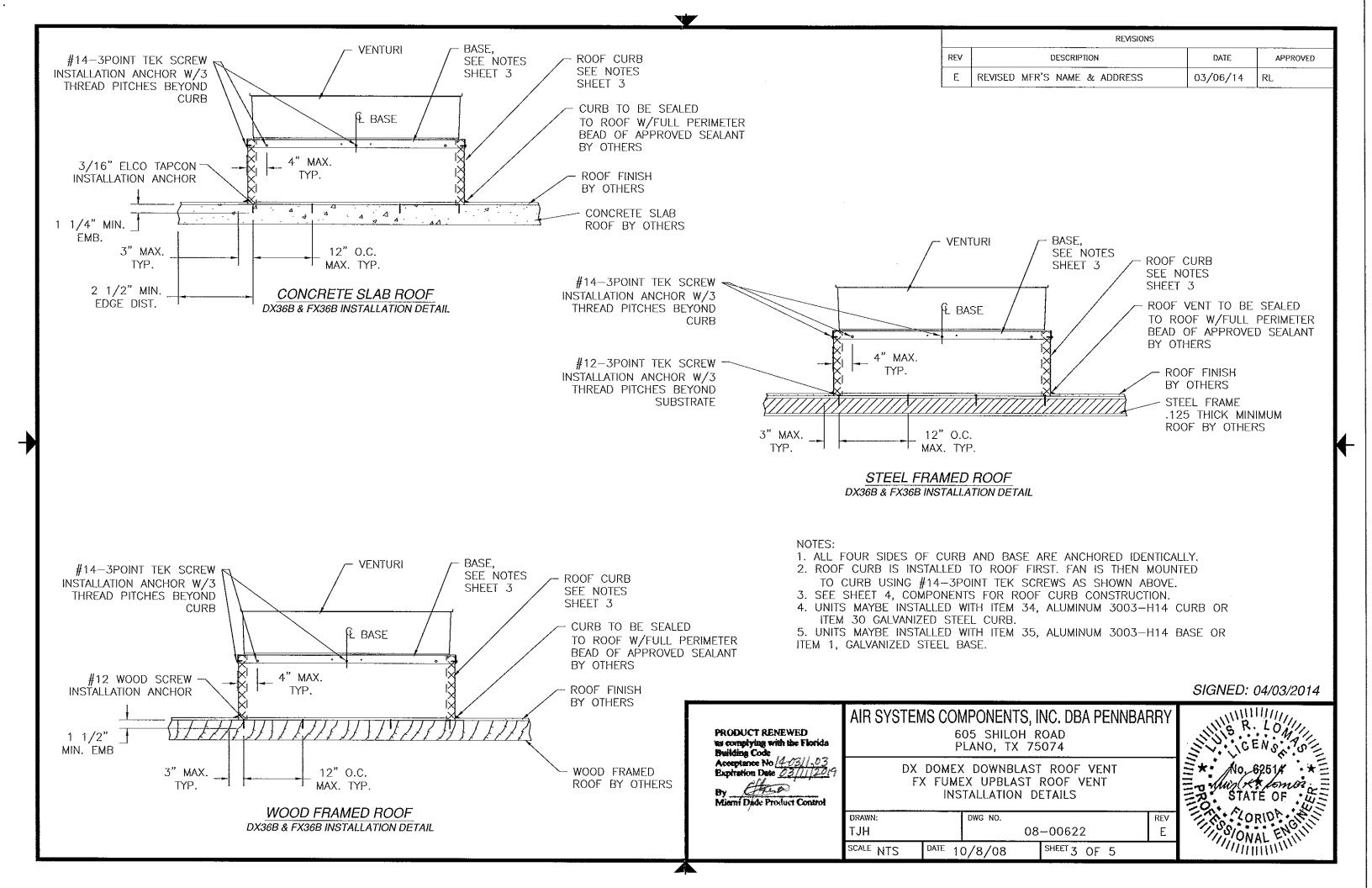
AIR SYSTEMS COMPONENTS, INC. DBA PENNBARRY 605 SHILOH ROAD

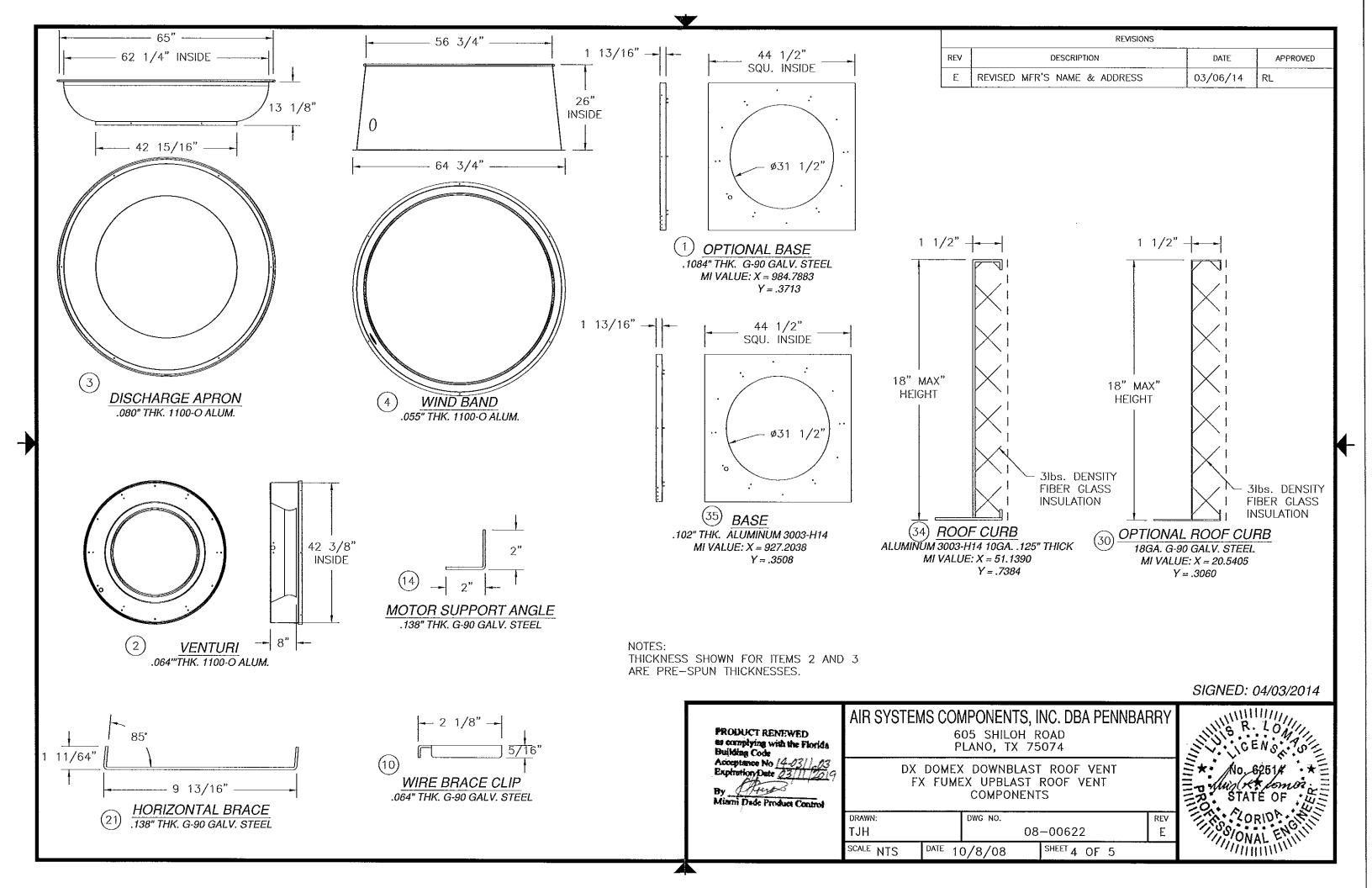
PLANO, TX 75074

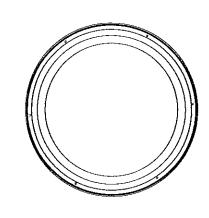
08-00622 SCALE NTS SHEET 1 OF 5 DATE 10/8/08

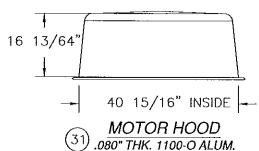


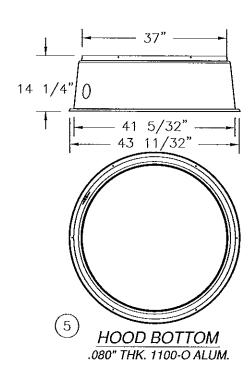
PARTS LIST					REVISIONS	
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL	(31) (8) (12) (16) (18) (19) REV DESCRIPTION DATE	APPROVED
1	16006-1	OPTIONAL BASE	PENNBARRY	G-90 GALV. STEEL	E REVISED MFR'S NAME & ADDRESS 03/06/	4 RL
2	16036-0	VENTURI	PENNBARRY	ALUMINUM 1100-0	7) (14)	
3	16128-0	DISCHARGE APRON	PENNBARRY	ALUMINUM 1100-0		
4	16153-0	WINDBAND	PENNBARRY	ALUMINUM 1100-0	$\boxed{3}$	
5	16230-0	HOOD BOTTOM	PENNBARRY	ALUMINUM 1100-0		
6	16205-0	HOOD TOP	PENNBARRY	ALUMINUM 1100-0		
7	16055-0	TOP PLATE	PENNBARRY	ALUMINUM 1100-0		
8	163040	MOTOR MOUNTING PLATE	PENNBARRY	G-90 GALV. CRS		
9	16392-0	DRAIN SPOUT	PENNBARRY	ALUMINUM 1100-H14	(32)	
10	18380-0	WIRE BRACE CLIP	LEESON	G-90 GALV. CRS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(16) (18)(19)
11	21179-0	FAN WHEEL	PENNBARRY	ALUMINUM, VARIOUS		
12		SHAFT	OEM CORP	CD 1045 STEEL		
13	16405-0	COOLING TUBE	PENNBARRY	ALUMINUM 6005-T5	(23)(25)	(21)
	16280-0	MOTOR SUPPORT ANGLE	PENNBARRY	G-90 GALV. STEEL		
		GROMMET	RUBBERMILL	BLACK SILICONE		
		BEARING	POWER RITE	CAST IRON		
<del></del> -	63010-0	VIBRATION ISOLATOR	ELECTROLINE CORP	SANTOPRENE	OR 33 22 26 28 <u>SECTION A-A</u> 27	
18	55510-0	1/2-13 SERRATED FLANGE NUT	ILS	ZINC COATED STEEL		
19	55601-0	1/2-13 x 1 1/2" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 2	26(28)	(15)
20	55286-0	COTTER PIN	ILS	ANSI B. 18.8.1		
21	18285-0	HORIZONTAL BRACE	PENNBARRY	G-90 GALV. STEEL	(3)	(20)
22	16255-0	WIRE SUPPORT	RACINE IRON & WIRE	G-90 GALV. CRS		
23		5/16-18 x 2" WELD STUD	ILS	AISI C1010 LOW CS	23(25)	X _
24	55514-0	5/16-18 x 1 1/2" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 2	24 25 29	(14)
25	55501-0	5/16-18 SERRATED LARGE FLANGE NUT	ILS	SAE J995 GRADE 2		(8)
26	55500-0	1/4-20 SERRATED LARGE FLANGE NUT	ILS	SAE J995 GRADE 2	OR O	17
27	55696-0	1/4-20 x 3/4" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 5	35 $22$ $33$ $10$ $2628$ $11$ SECTION B-B SIGN	7) 9 ED: 04/03/2014
28	55640-0	1/4-20 PEM HIGH STRENGTH STUD	ILS	STEEL	FX36B	
29	55541-0	WASHER 1/8" x 3/8" x 1 3/4"	ILS	ZINC PLATED STEEL	AIR SYSTEMS COMPONENTS, INC. DBA PENNBARRY	WIIIIIII.
30		ROOF CURB (OPTIONAL)	RPS	G-90 GALV. STEEL	PROMICT RENEWED 605 SHILOH ROAD	R. LOWIL
31	16178-0	MOTOR HOOD	PENNBARRY	ALUMINUM 1100-0	ts complying with the Florida PLANO, TX 75074	CENONIO
32	55490-0	1/4-20 UNC-2B FLANGED ACORN NUT	ILS	ZINC DIE CAST	Building Code Accoptance No [4-031].03 Expiration Date 23/11/2019  By Mianui Dade Product Control  DX DOMEX DOWNBLAST ROOF VENT FX FUMEX UPBLAST ROOF VENT BILL OF MATERIALS AND SECTIONS	0.62514 *=
33	55940-0	1/4" BODY DIA. POP RIVET		ZINC COATED STEEL	Mismi Dade Product Control	NORION ASS
34		ROOF CURB	WARD INDUSTRIES	ALUM 3003-H14	DRAWN: DWG NO. REV	ORION CHILL
35	16006-0	BASE	PENNBARRY	ALUM 3003-H14	SCALE NTS DATE 10/8/08 SHEET 2 OF 5	ONAL ENTITY

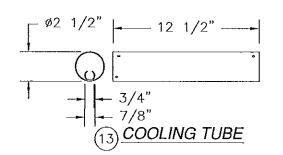




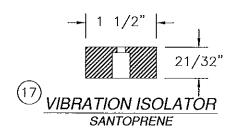


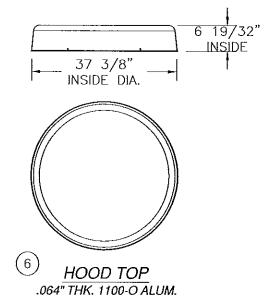


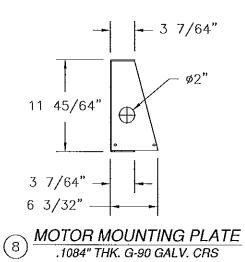


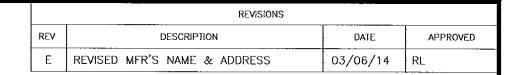


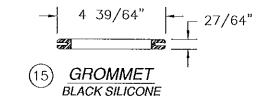
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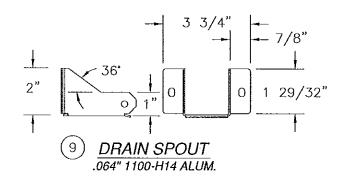












SIGNED: 04/03/2014

THICKNESS SHOWN FOR ITEMS 5, 6 AND 31 ARE PRE-SPUN THICKNESSES.

AIR SYSTEMS COMPONENTS, INC. DBA PENNBARRY 605 SHILOH ROAD PLANO, TX 75074 **PRODUCT RENEWED** as complying with the Florida Building Code Acceptance No 4-03 11.03 Expiration Date 03/11/201 DX DOMEX DOWNBLAST ROOF VENT FX FUMEX UPBLAST ROOF VENT ORIU. COMPONENTS Mismi Dade Product Control DRAWN: DWG NO. TJH 08-00622 SCALE NTS SHEET 5 OF 5 DATE 10/8/08